

CLAIMS

We claim:

1. A remote signaling receiver system comprising:
 - a first transmitter device that generates at least a first wireless communication signal;
 - a second transmitter device that generates at least a second wireless communication signal; and
 - a receiver that receives the first and second signals, the receiver including a first demodulator for processing the first signal and a second demodulator for processing the second signal.
2. The system of claim 1, wherein the second device and the receiver are supported on a vehicle and the sensor device signal provides information regarding a condition of a selected vehicle component.
3. The system of claim 2, wherein the sensor device includes a tire condition sensor and the sensor signal provides information regarding at least one condition of at least one of the vehicle tires selected from the group of tire pressure, tire temperature, tire thickness and acceleration.
4. The system of claim 1, wherein the first transmitter device is a portable keyless entry signaling device, the first demodulator is an ASK demodulator and the second demodulator is a demodulator that is not affected by amplitude modulation on the second signal.
5. The system of claim 1, wherein the receiver is programmed to process all received signals using one of the demodulators and only when a received signal output is not discernable from the one demodulator to process the received signal using the other demodulator.
6. The system of claim 1, wherein the transmitter signal has a first baud rate and the sensor signal has a second baud rate that is at least two times higher than the first baud rate.

7. A method of processing signals received by a receiver having a first demodulator that is adapted to demodulate a first type of signal from a first signal source and a second demodulator that is adapted to demodulate a second type of signal from a second source, comprising the steps of:

- (A) receiving a signal;
- (B) determining whether the demodulated signal can be interpreted as a signal from the first source or the second source;
- (C) demodulating the received signal using the first demodulator when the received signal is from the first source; and
- (D) demodulating the received signal using the second demodulator when the received signal is from the second source.

8. The method of claim 7, wherein step (C) includes using amplitude shift keying and step (D) includes using a demodulation technique that is not sensitive to amplitude modulation in the received signal.

9. A vehicle remote keyless entry system comprising:
a portable transmitter that generates a wireless communication signal;
at least one sensor device supported relative to a component on the vehicle that senses a condition of the component and generates a wireless communication signal; and
a receiver supported on the vehicle that receives the transmitter signal and the sensor signal, the receiver including a first demodulator for processing the transmitter signal and a second demodulator for processing the sensor signal.

10. The system of claim 9, wherein the sensor device includes a tire condition sensor and the sensor signal provides information regarding a condition of at least one of the vehicle tires.

11. The system of claim 9, wherein the first demodulator is an ASK demodulator and the second demodulator is a demodulator that is not sensitive to amplitude modulation.

12. The system of claim 11, wherein the second demodulator is a FSK demodulator.

13. The system of claim 9, wherein the receiver is programmed to process all received signals using one of the demodulators and only when a received signal output is not discernable from the one demodulator to process the received signal using the other demodulator.

14. The system of claim 9, wherein the transmitter signal has a first baud rate and the sensor signal has a second baud rate that is at least two times higher than the first baud rate.

15. The system of claim 9, wherein the receiver includes a microprocessor that is programmed to receive the transmitter signal on a first channel and the sensor signal on an image channel.